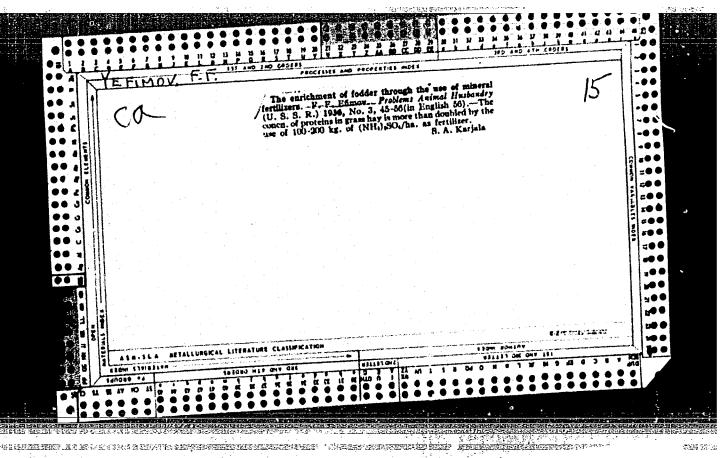
LEVIN, R.S., prof.; YEFIMOV, F.F.

Congenital familial craniofacial dysostosis. Vest.rent.i rad. 34 no.2:80-82 Mr-Ap '59. (MIRA 13:4)

l. Iz rentgenovskogo otdeleniya Hauchno-issledovatel skogo pediatricheskogo instituta (direktor - prof. A.L. Libov) Ministerstva zdravookhraneniya RSFSR. (HYPERTELORISM, case reports, x-ray (Rus))



Country : USSR Category Farm Animals. General Problems. Q Abs. Jour Ref Zhur-Biol., No 21, 1958, 96817 Author Institut. Title : Orig Pub. containing 41 g of nitrogen. In the first two groups of calves a negative nitrogen balance was observed, in the third, a small positive balance, in the fourth, a considerable positive nitrogen balance were observed. Abstract Card: 2/2

YEFIHOV, F.F., kandidat sel'skokhozyaystvennykh nauk; OBRAZTSOVA, A.S.

Urea, effective nitrogen fertilizer. Nauka i pered. op. v sel'khoz. 7 no.4:31-32 Ap '57. (MLRA 10:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zhivotnovodstva (for Obrastsova).

(Urea)

D'YAKOV, Mikhail Iudovich, akademik [deceased]; BELEN'KIY, N.G., obshchiy red.; DMITROCHENKO, A.P., prof., doktor sel'skokhoz. nauk, obshchiy red.; KONDYREV, V.Ye., kand.sel'skokhoz.nauk, obshchiy red.. V redaktirovanii prinimali uchastiye: GOLU-BENTSOVA, Yu.V., kand.sel'skokhoz.nauk, nauchnyy sotrudnik, red. [deceased]; MYSYUTKINA, M.V., kand.sel'skokhoz.nauk, nauchnyy sotrudnik, red.; YEFIMOV, F.F., kand.sel'skokhoz.nauk, nauchnyy sotrudnik, red.; KABOZEV, S.M., kand.sel'skokhoz.nauk, nauchnyy sotrudnik, red.; BEDNARSKAYA, G.A., red.; BALLOD, A.I., tekhn.red.

[Selected works in two volumes] Izbrannye sochineniis v dvukh tomakh. Moskva, Gos.izd-vo sel'khoz.lit-ry. Vol.1. 1959. 515 p. Vol.2., 1959. 647 p. (MIRA 13:1)

1. Vsesoyuznaya akdemiya sel'skokhoz.nauk im. V.I.Lenina (for D'yakov). 2. Deystvitel'nyy chlen Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk imeni V.I.Lenina (for Belen'kiy). 3. Vsesoyuznyy nauchno-issledovatel'skiy institut kormleniya sel'skokhozyaystvennykh zhivotnykh (for Golubentseva, Mysyutkina, Yefimov, Kabozev).

(Agriculture)

Studying physical characteristics of rocks. Geol. nefti 1 no.2r 60-63 F 157. (MIRA 10:8)

YEFIMOV, F.N.

YEFIMOV, P.N.

Idegnetic-fractional-mineralogical analysis. Geol. nefti 2 no.1:63(MIRA 11:1)
69 Ja 158.

(Rocks--Magnetic properties)

YEFIMOV, F.N.

Magnetic-fractional-mineralogical study of rocks. Izv. AN SSSR. Ser.geol. 26 no.9:24-36 S '61. (MIRA 14:8)

1. Vsesoyuznyy nauchno-issledovateliskiy geologorazvedochnyy neftyanoy institut (VNIGNI) Ministerstva geologii i okhrany nedr SSSR, Moskva.

(Rocks--Magnetic properties)

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YEFIMOV, F.N.

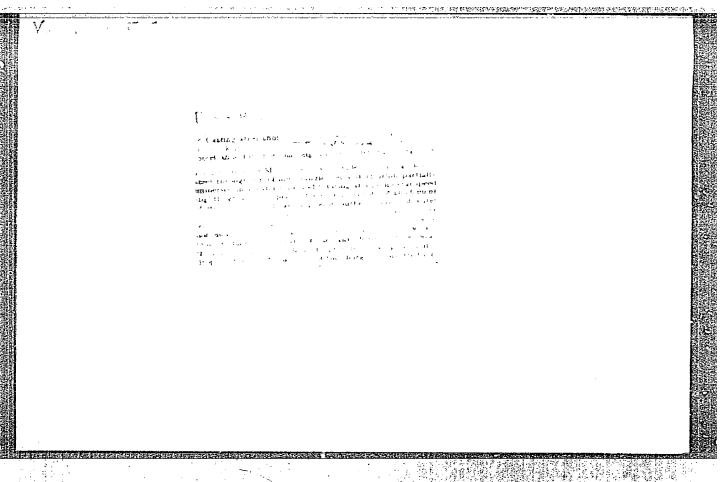
New method for analyzing rocks and iron ores. Sov.geol. 6 no.2:152-155 f 163. (MIRA 16:4)

l. Vsesoyuznyy nauchno-issledovatel skiy geolog razvedochnyy neftyanoy institut.

(Rocks-Analysis) (Iron ores-Analysis)

YEFIMOV, Fedor Nikolayevich; POSPELOVA, A.M., ved. red.

[Magnetic-fractional-mineralogical (MFMA) analysis of rocks] Magnitno-fraktsionno-mineralogicheskii analiz rocks] Magnitno-fraktsionno-mineralogicheskii analiz (MFMA) gornykh porod. Moskva, Nedra, 1964. 223 p. (MIRA 17:11)



YEFIMOV, F.T.; FROLOV, N.G.; MAKOVSKIY, G.M., inzh., red.; GORDEYEVA, L.P., tekhn. red.

[Metal shot and sand; production and use] Metallicheskie drob' i pesok; proizvodstvo i primenenie. Moskva, Mashgis, (MIRA 16:7)

(Shot) (Sand, Foundry)

TETIMOV. G.: CHERKASOV, N.

Exemplary work of motion-picture operator Rumiantsev. Kinomekhanik (MIRA 8:2)

no. 1:5-6 Ja '55.
(Rumiantsev, N.)

YEFIMOV, G.			n/5 604 •Ry	
				:
Russia. Posol'stvo. In	ndia.			
Sputniks breaking :	into cosmos. Ed. by G. Eii	mov. New Delhi	, USSR Embassy,	1751.
78 p. illus. (Boo	klets on the Soviet Union)			
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	Carron and Carron described the Carron of th			

GALEYEV, A.; YEFIMOV, G., rabkor; SERDYUKOV, N., inzh.; LOBZA, L.

UL'KIN, P., uchitel* (Novozybkovskiy rayon Bryanskoy obl.);
PETROV, V., uchitel* (Novozybkovskiy rayon Bryanskoy obl.)

DEGTYAREV, N.

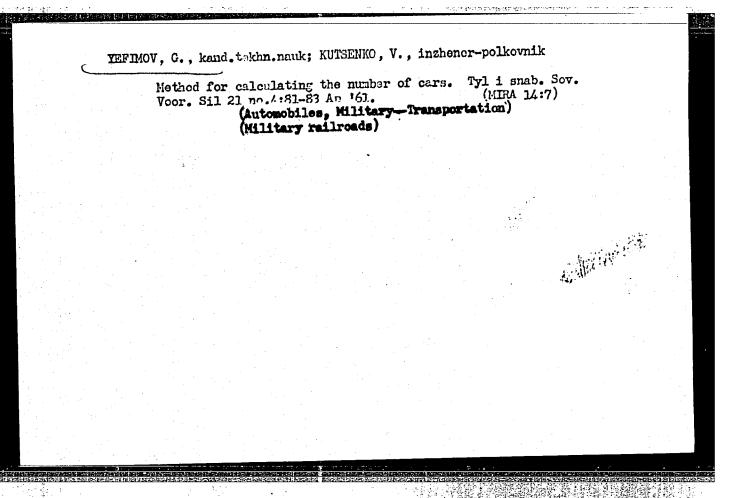
Letters to the editors. Sov. profsoiuzy 17 no. 2:46-49

Ja '61. (MIRA 14:2)

1. Predsedatel* promyslovogo komiteta profsoyuza, g.
Oktyabr*skiy (for Galeyev). 2. Gomel* haye remontnoekspluatasionnaya baza rechnogo flota (for Serdyukov).

3. Chlen rabsel*korovskogo soveta gazety "Vpered" Razdel*nyanskogo rayona Odesskoy oblasti (for Degtyarev).

(Trade unions)



YEFIMOV, G. (Astrakhan')

Improve the streetcar linea. Zhil.-kom. khoz. 13 no.4:25 Ap
'63. (MIRA 16:5)

(Astrakhan-Streetcars)

LOBOV, V., kand. biolog. nauk; YEFIMOV, G. [IEfimov, H.], nauchnyy sotrudnik

Chemical protection of plants. Nauka i zhyttia 12 no.2:8-10 (MIRA 16:4)

1. Institut organicheskoy khimii AN UkrSSR (for Yefimov).

(Agricultural chemicals)
(Plants, Protection of)

USSR/General and Specialized Zoology - Insects.

Ρ.

Abs Jour

: Ref Zhur - Biol., No 8, 1958, 35321

Author

: Zagaykevich, I.K., Yefimov, G.A.

Inst

Title

: Elateroides Dermestoides as a Beach Post in the Carpathian

Mountains.

Orig Pub

: Lesn. k-vo, 1956, No 11, 44-46.

Abstract

: Elateroides dermestoides is a mass technical pest of the beech, birch and fir trees. It inhabits the alder, oak, clm, ash, chestnut, maple, asp, poplar, pine, fir and larch trees. The emergence of the beetles in various forestries in different years lasted from April 17 to June 29. The females picked out for egg-laying thick trees lying on the ground or weakened-in the loxer partsstanding trees, stumps and root lugs. Curved larvae passages penetrated horizontally into the wood or around the

trunk. The larvae cleared the bore meal from the

Card 1/2

- 25 -

APPROVED FOR RELEASE: 09/19/2001 Insec GIA-RDP86-00513R001962330001-6" USSR/General and Specialized Zoology

: Ref Zhur - Biol., No 8, 1958, 35321 Abs Jour

> passages. The walls of the passages were covered with mycelium Endomyces hylecocti (the spores were carried by the female) which served as the chief food for the larvae. The decay (and rapid destruction) of the wood frequently starts from the passages; it is caused usually by pore fungi. Sanitary care of the forest is needed, and in the centers of mass propagation of the posts it is necessary to treat the stumps, trunks and wood residues with a DDT solution in diesel fuel prior to egg-laying.

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ZAGAYKEVICH, I.K. [Zahaikevych, I.K.]; YEFIMOV, G.A. [IEfimov, H.O.]

Dilus fugai Oliv. as a pest of papilionaceous shrubs. Zbir. prats'

muz. AN URSR no.28:103-104 '57.

(Kiev Province--Longicorn beetles)

(Leguminosae--Diseases and pests)

(Kiev Province--Borers (Insects))
```

LOBOV, V.P.; YEFIMOV, G.A. [IEfimov, H.O.]; GORDAYA, M.V. [Horda, M.Y.]

Herbicidal properties of diphenylethane derivatives. Pop. AN URSR no.5:682-686 '64. (MIRA 17:6)

1. Institut organicheskoy khimii AN UkrSSR. Predstavleno akademikom AN UkrSSSR D.K.Zerovym.

YEFIMOV, G.A. [IEfimov, H.O.]

Avenin, a new systemic insecticide. Dop.AN URSR no.8:1095-1097 160. (MIRA 13:9)

1. Institut organicheskoy khimii AN USSR. Predstavleno AN USSR P.A. Vlasyukom. (Insecticides)

YEFIMOV, G.A. [IEfimov, H.O.]; KAGAN, Yu.S. [Kahan, IU.S.]

Toxicity of diesters of urethanphosphoric acids to insects and warm-blooded animals. Dop. AN URS no.2:275-278 '64. (MIRA 17:5)

1. Institut organicheskoy khimii AN UkrSSR. Predstavleno akademikom AN UkrSSR A.P. Markevichem [Markevych, 0.P.].

YEFIMOV, G.A. [IEfimov, H.O.]; LOBOV, V.P.

Insecticidal properties of the parachlorothicphenyl ester of phenylfluorothiophesphinic acid. Bop. AN URSR no.7:969-971
*64. (MIRA 17:9)

1. Institut organicheskoy khimii AN UkrSSR. Predstavleno akademikom AN UkrSSR A.P. Markevichem [Markevych, O.P.].

YEFIMOV, G.A.

Pathomorphology of afferent and efferent structures of the intramural nervous system of the lungs in fibreavernous tuberpulosis. Probl. tub. 41 no.8:66-72 '63. (MRA 17:9)

1. Iz kliniki obshchey khirurgii (zav. - zasluzhenyy deyatel'nauki RSFSR prof. A.A.Polyantsev) Volgogradskogo medituinskogo instituta i khirurgicheskogo otdeleniya oblastnoy klinicheskoy bol'nitsy (glavnyy vrach - zasluzhennyy vrach RSFSR A.I.Gusev).

AUTHOR: Yefimov, G. B.; Okhotsimskiy, D. Ye. ORG: none TITLE: On optimum acceleration of a spacecraft in a central field SOURCE: Kosmicheskiye issledovaniya, v. 3, no. 6, 1965, 811-825 TOPIC TAGS: energy optimum trajectory, optimum acceleration, low thraperbolic velocity ABSTRACT: This article can be considered as an extension of the article okhotsimskiy (Investigation of motion in a central force field with Okhotsimskiy (Investigation of motion in a central force field with Okhotsimskiy (Investigation of motion in a central force field with okhotsimskiy (Investigation of motion in a central force field with okhotsimskiy (Investigation of motion in a central force field with okhotsimskiy (Investigation of solice is seledovaniya, v. 2, no. 6, 1965)	rust spacecraft, icle by D. Ye.
Okhotsimskiy (Investigation of motion in a central force field with okhotsimskiy (Investigation of motion in a central force field with okhotsimskiy (Investigation of motion in a central gravitation of the simple asymptotic formulas derived there make it possible to call the simple asymptotic formulas derived there make it possible to call eters of motion in the neighborhood of a gravitational center as well distant from it. Here, the authors raise the question of the extent distant from it. Here, the authors raise the question of the ener scheme is optimal. They analyze the variational problem of the ener celeration of a low-thrust spacecraft in a central gravitational fie circular orbital velocity to hyperbolic velocity under the assumption circular orbital velocity to hyperbolic velocity under the assumption celeration is variable and that its direction deviates from the directleration is variable and that its direction deviates from the neither than the trajectory. The properties of such motion in the neither are analyging the center and at points distant from the center are analyging the control of the center and at points distant from the center are analyging the center and at points distant from the center are analyging the center and at points distant from the center are analyging the center and at points distant from the center are analyging the center and at points distant from the center are analyging the center and at points distant from the center are analyging the center and at points distant from the center are analyging the center and at points distant from the center are analyging the center and at points distant from the center are analyging the center and at points distant from the center are analyging the center and at points distant from the center and at points dist	culate the param- l as at points to which this gy-optimum ac- eld from a nearly ons that this ac- ection of the

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optimum motion	is compar	red with	the corr	espondi	ng mot	ion of	a space	craft v	with con	a-
stant tangenti	al acceler	ration a	nd its ad	vantage	s and o	disadva	ntages	are ind	licated.	•
The authors em	phasize th	at the a	scheme of	motion	with o	constan	t tange	ntial a	ccelers	tion
presented in t	ne earlier	article	e is suff	icientl	y simp	le and	rations	l. The	constr	ruc-
tion of the li	mit soluti	on of the	he variat	ional p	roblem	by whi	ch esti	mating	the bas	sic
flight paramet	ers can be	reduced	d to the	use of	single.	-entry	tables	or to c	calcula-	•
tions by means	of simple	formula	as (as is	done i	n the o	case of	motion	with c	constant	;
tangential acc	eleration)	is cons	s_dered.	Orig.	art. ha	as: 3	figures	, 53 fc	rmulas.	
tangential acc				_						
and 2 tables.	:	•							·	[LK]
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BRYLEYEV, A.M., doktor tekhn.nauk; MOZHAYEV, S.S., inzh.; YEFIMOV, G.K., inzh.

Modernized numerical a.c. code-type automatic block system. Avtom., (MIRA 14:11) telem. i sviaz' 5 no.11:10-13 N '61. (MIRA 14:11) (Railroads--Signaling--Block system)

BRYLEYEV, A.M., doktor tekhn.nauk, prof.; PUGIN, D.K., kand.tekhn.nauk; YEFIMOV, G.K., inzh.

Coded a.c. circuit blocking with time division of coding in the adjacent track cuicuits. Vest.TSNII MPS 20 no.5:3-8 '61. (MIRA 14:8)

(Railroads-Signaling-Block system)

BRYLEYEV, A.M., doktor tekhn.nauk, prof.; SHISHLYAKOV, A.V., kand.tekhn.nauk; PUGIN, D.K., kand.tekhn.nauk; YEFIMOV, G.K., inzh.; MCZHAYEV, S.S., inzh.; GRIGOR'YEV, N.I., inzh., retsenzent; KAZAKOV, A.A., kand.tekhn.nauk, retsenzent; PETUSHKOVA, I.K., inzh., red.; USENKO, L.A., tekhn.red.

[New systems of coded automatic block signaling] Novye sistemy kodovoi avtoblokirovki. Moskva, Vses. izdatel sko-poligr. ob"edinenie M-va putei soob., 1961. 135 p. (Moscow. Vsesoiuznyi nauchno-issledovatel skii institut zheleznodorozhnogo transporta. (MIRA 15:1) Trudy, no.219) (Railroads-Signaling-Block system)

YEFIMOV, G.K., mladshiy nauchnyy sotrudnik; DMITRIYEV, V.S.

A selective device for measuring the harmonic components of traction network current. Avtom., telem. i svias' 7 no.1:7-9 Ja '63. (MIRA 16:2)

1. Vsesoyuznyy nauchno-issledovatel skiy institut zheleznodorozhnogo transporta Ministerstva putey soobshcheniya (for Yefimov). 2. Starshiy inzh. Vsesoyuznogo nauchno-issledovatel skogo instituta zheleznodo-rozhnogo transporta Ministerstva putey soobshcheniya (for Demitriyev).

(Electric railraods—Current supply)
(Electric railraods—Electric measurements)

SHISHLYAKOV, A. V., kand. tekhn. nauk; YEFIMOV, G. K., kand. tekhn. nauk; DMITRIYEV, V. S.

Track circuit with tuned resonant joint transformers. Avtom., telem. i svias 7 no.4:4-7 Ap 163. (MIRA 16:4)

1. Starshiy inzh. laboratorii avtoblokirovki i avtoregulirovki Vsesoyuznogo nauchno-issledovatel'skogo instituta zhelezno-dorozhnogo transporta Ministerstva putey soobshcheniya (for Dmitriyev).

(Railroads-Signaling-Centralized traffic control)

BRYLEYEV, A.M., doktor tekhn. nauk; YEFIMOV, G.K., kand. tekhn. nauk; MOZHAYEV, S.S., inzh.

Code-type automatic a.c. block system with a DIa stage.
Avtom., telem. i sviaz! 7 no.6:3-7 Je 163.

CIA-RDP86-00513R001962330001-6 "APPROVED FOR RELEASE: 09/19/2001

Ar6014731 ACC NRI

UR/0006/65/000/012/0031/0034 SOURCE CODE:

Yefimov, G.N.; Sigalov, V.M.

AUTHOR:

Experience acquired in the use of electronic computers in triangulation calcu-ORG: None TITLE:

SOURCE: Geodeziya i kartografiya, no 12, 1965, 31-34

TOPIC TAGS: geodesics, geodetic survey, triangulation, computer application, digital computer/ Ural-1 digital computer/ Ural-2 digital computer/ Minsk-1 digital computer

ABSTRACT: This paper is an account of experience gained in the use of EDP in geodetic surveying. Computer programs were written and computations performed for various phases of triangulation and related geodetic surveying work. Triangulation adjustment computations, limited to small, under 10 determinable points network, were performed; these were transferred from Ural-1 to the Minsk-1 computer which does this work 12 times faster and 4.5 times cheaper. Preliminary processing of triangulation: programs for this work were originally written for both the Ural-1 and Minsk-1 computers, but beacause of the better effectiveness of the Minsk-1, the computations are now done only on the Minsk-1. Coordinate transfer between adjacent 6 degree zones: programs for this work have been written for both the Ural-1 and the more powerful Ural-2 computer. For the solution of the reverse problems, other programs have been adapted, with minor

ACC NR: AP6014731

switching addenda - the triangulation adjustment program and the zone transfer program. A special program enables the computer to verify the perforated tape using optital computer time for the processing of a triangulation system is on minutes for the Ural-1, with n - the total number of points; for Minsk-1 the time is k minutes for the repeat computation with changed coordinates. A maximum of 27 triangulation adjustment problems can be handled; the time is 30 minuts. The preliminary processing of triangulation is done twice, independently, acting upon information supplied independently upon to 2240 directions (Ural-2). Computer time is 5 seconds (1 minute on the Ural-1). The transfer of coordinates and observations are presented. Orig.art.

OB CODE: 08, 09/ SUBM DATE: None/ ORIG REF: 000

Card 2/2

LOBOV, V. P., kand. biolog. nauk; YEFIMOV, G. Q. [IEfimov, H. O.]

Modern methods of the chemical control of weeds. Khim. prom. [Ukr.] no.1:40-43 Ja-Mr 162. (MIRA 15:10)

1. Nauchno-issledovatel'skiy institut organicheskoy khimii AN UkrSSR.

(Weed control)

LOBOV, V.F. kand. biol. neuk; YFFIMOV, G.O. [IEfimov, H.O.]

Field testing of the domestic "Avenin" preparation in the control of sugar beet weevils. Khim. prom. [Ukr.] no.4: (MIRA 17:6) 35-37 0-D'63.

5/0021/64/000/002/0275/0278

The toxicity of diesters of urethanphosphoric acids for insects and warm-ACCESSION NR: AUTHOR: York

TITLE: blooded animals

SOURCE: AN UKTRSR. Dopovidi, no. 2, 1964, 275-278

TOPIC TAGS: Organophosphorus compound, insecticide, organic phosphorus insecticide, anticholinesterase, toxicity

ABSTRACT: The present work dealt with organophosphorus compounds, the diesters of ABSTRAUT: The present work dealt with organophosphorus compounds, and alkyls.

urethanphosphoric acids of the type ROOCNIP(0)(OR!)2. Where R and R! are alkyls.

urethanphosphoric acids of the type and ethylurethanphosphorus acids are The dimethyl esters of isopropyli, methyl- and ethylurethanphosphoric acids are wery toxic for the sugar-beet weevil, the first-mentioned being the most toxic.

Preparations of diesters have high calestive toxicity for centain insect species Preparations of diesters have high selective toxicity for certain insect species rreparations of diesters have high selective toxicity for certain insect species of the order Diptera (Musca domestica, M. stabulans, Hylemia antiqua and Pegomia of the order Diptera (Musca domestica, M. stabulans, Hylemia antiqua and Pegomia) hyosciami). The preparations were tested on rats and found to be practically harmless, manifesting a very weak anticholinesterase activity in vitro and not being transformed into active anticholinesterase agents in the animal organism. Orig. art. has 2 tables.

Card 1/2

ACCESSION NR: AP4012593

ASSOCIATION: Insty*tut organichnoyi khimiyi AN UkrRSR(Institute of Organic Chemistry, AN UkrRSR)

DATE ACQ: 03/Aar64

ENCL: 00

SUEMITTED: 06May63

NO REF SOV: 009

OTHER: 000

SUB CODE: AM

2/2 Card

Effinov, G. P. "Apparatus Constructed by I. N. S. for Determining the Elasticity Modulus of Rocks." Mineral noe Syrie, Moscow, Mo. 1, 1937, pp. 45-53.	YEFF-CV, G. P.			
	Efimov, G. P. "Apparatus Constrof Rocks." Mineral nee Syrie, 1	ructed by I. H. S. Hoscow, No. 1, 1937	for Determining the E1, $pp.45-53$.	asticity Modulus
				•

YEFIMOV. C. I.

30GDANOV.N.K., kandidat tekhnicheskikh nauk; YEFIMOV.G.P., inzhener

Calculating securing devices for freight transported on railroad flatcars. Tekh.zhel.dor.6 no.12:7-10 D'47. (MIRA 8:12)

(Railroads--Cars)

YEFIMOV, G

Peredovaya Tekhnologiya Ispol'zovaniya Pogruzchikov I Kranov (Modern Technology of the Utilization of Loaders and Cranes, by) G.P. Yefimov. Moskva, Transzheldorizdat, 1951.

107 p. Diagra., Tables (Trudy Veesoyuznogo Nauchno-Issledovatel'skogo

Instituta Zheleznodorozhnogo Transporta, Vyp. 44)

P

N/5 741.53 .K72

KOGAN, L.A.; MOLYARCHUK, G.S.; YEFIMOV, G.P.; GOLOVANOV, A.L., redaktor; YULZON, D.M., tekhnicheskiy redaktor

Advanced technology in the use of loaders and cranes. Trudy TSNII MPS no.44:3-108 '51. (MLRA 8:7) (Loading and unloading) (Cranes, derricks, etc.)

USSR/Engineering - Automotive equipment

Card 1/1 : Pub. 71 - 13/17

Authors : Efimov, G. P., and Korotkov, V. N.

Title : The effectiveness of the use of lift-trucks in rail transport

Periodical : Mech. trud. rab. 5, 41-45, July 1954

Abstract : A study was conducted concerning the advantage of using lift-trucks for loading commercial goods on rolling stock. General description of ZIO, 4004, and UFN-6 lift-trucks is presented, together with instructions for their operation. Illustrations; table.

Institution:

Submitted :

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HENESHEVICH. I.I. --- (continued) Card 2.

VASIL'YEV, V.F.; GONCHAROV, N.G., inzhener; DERIBAS, A.T., inzhener; DOBROSEL'SKIY, K.H., dotsent, kandidat tekhnicheskikh nauk; DLUGACH, B.A., kandidat tekhnicheskikh nauk; YKFIHOV, G.P., kandidat tekhnicheskikh nauk; ZEMBLINOV, S.V., professor, doktor tekhnicheskikh nauk; ZABELLO, H.L., kandidat tekhnicheskikh nauk; IL'IN, K.P., kandidat tekhnicheskikh nauk; KARWINIKOV, A.D., kandidat tekhnicheskikh nauk; KAPLUN, F.Sh., inzhener; KANSHIN, M.D.; KOCHNEV, F.P., professor, doktor tekhnicheskikh nauk; KOGAN, L.A., kandidat tekhnicheskikh nauk; KUCHURIN, S.F., inzhener; LMVASHOV, A.D., inzhener; MAKSIMOVICH, B.M., dotsent, kandidat tekhnicheskikh nauk; MARTYNOV, M.S., inzhener; MEDEL*, O.M., inzhener; NIKITIN, V.D., professor, kandidat tekhnicheskikh nauk; PADNYA, V.A., inzhener; PANTELEYEV, P.I., kandidat tekhnicheskikh nauk; PYTROV, A.P., professor, doktor tekhnicheskikh nauk; POVOROZHENKO, V.V., professor, doktor tekhnicheskikh nauk; PISKAREV, I.I., dotsent, kandidat tekhnicheskikh nauk; SERGEYEV, Ye.S., kandidat tekhnicheskikh neuk; SIMONOV, K.S., kandidat tekhnichekikh nauk; SIMANOVSKIY, M.A., inzhener; SUYAZOV, I.G., inzhener; TAIDAYEV, F.Ya., inzhener; TIKHONOV, K.K., kandidat tekhnicheskikh nauk; USHAKOV, N.Ya., inzhenr; USPENSKIY, V.K., inzhener; FEL*DMAN, E.D., kandidat tekhnicheskikh nauk; FERAPONTOV, G.V., inzhener; KHOKHLOV, L.P., inzhenr; CHERNOMORDIK, G.I., professor, doktor tekhnicheskikh nauk; SHAMAYEV, H.F., inzhener; SHAFIRKIN, B.I., inzhener; YAKUSHIN, S.I., inzhener; GRANOVSKIY, P.G., redaktor; TISHCHENKO, A.I., redaktor; ISAYEV, I.P., dotsent, kandidat tekhnicheskikh nauk, redaktor; KLIHOV, V.F., dotsent kandidat tekhnicheskikh (Continued on next card)

BENESHEVICH, I.I. (continued) Card 3.

nauk, redaktor; MARKOV, H.V., inzhener, redaktor; KALININ, V.K.,
inzhener, redaktor; STEPANOV, V.N., professor, redaktor; SIDCROV, N.I.,
inzhener, redaktor; GERONIMUS, B.Ye., kandidat tekhnicheskikh nauk,
redaktor; ROBEL*, R.I., otvetstvennyy redaktor

[Technical reference manual for railroad engineers] Tekhnicheskii sprayochnik zheleznodorozhnika. Moskva, Gos. transp.zhel-dor. izd-vo. Vol.10. [Electric power supply for railroads] Energosnabzhenie sheleznykh dorog. Otv.red. toma K.G.Markvardt. 1956. 1080 p. Vol.13. [Operation of railroads] Ekspluatatsiia zheleznykh dorog. Otv. red. toma R.I.Robel'. 1956. 739 p. (MLRA 10:2)

1. Chlen-korrespondent Akademii nauk SSSR (for Petrov)
(Electric railroads) (Reilroads--Management)

YEFIMOV, O.T.

KOGAN, A., kandidat tekhnicheskikh nauk; YEFIMOV, G.P., kandidat tekhnicheskikh nauk; DOLGOV, N.M.

Testing small-sized loaders. Vest.TSNII MPS 15 no.2:61 S '56.

(MIRA 9:12)

(Fork lift trucks)

AUTHOR: Wefimov, G.P., Engineer. 133-7-14/28

TITIE:

Production of Rail Soleplates for Reinforced Concrete

Sleepers. (Proizvodstvo rel'sovykh podkladok k zhelezob-

etonnym shpalam)

PERIODICAL: Stal', 1957, No.7, pp. 627 - 628 (USSR)

CT: The types of soleplates and their manufacturing methods are described and illustrated in Figs. 1 - 3. There are

3 figures.

ASSOCIATION: Kuznetsk metallurgical Combine (Kuznetskiy Metallurg-

icheskiy Kombinat)

AVAILABLE:

Library of Congress.

Card 1/1

Vefiner, G.P.

Yefimoy G.P., Engineer. AUTHOR:

133-12-13/26

TITLE:

Manufacture of Hole-piercing Punches for Rail Fishplates

(Izgotovleniye puansonov dlya proshivki otverstiy v

rel'sovykh nakladkakh)

PERIODICAL: Stal', 1957, No.12, p.1111 (USSR).

The design of the punch is described and illustrated. ABSTRACT:

The punch is capable of making 20 000 holes without repair.

There is I figure.

ASSOCIATION:

Kuznetskiy Metallurgical Combine (Kuznetskiy metall-urgicheskiy kombinat) [located in Stalinsk (Kemerovskaya o]]

AVAILABLE:

Library of Congress

Card 1/1

AUTHOR: Yefimov.

130-3-12/21

TITIE:

in rail cover plates. (Ustraneniye Avoiding nicks

zaboin v rel'sovykh nakladkakh).

PERIODICAL: Metallurg, 1958, No.3, p.26 (USSR).

ABSTRACT: Nicks were found to be produced in blanks from which rail cover plates are made when the blanks pass over plates from the furnace to the roller table. This arono whon the plates became covered with scale and necessitated the frequent cleaning and replacement of the cast (Steel /13) plates. The difficulty was overcome by using 10 mm thick and 0.8 m long plates of 3M417 steel which could be replaced without

stopping the furnace. There is 1 figure.

ASSOCIATION: Kuznetsk Metallurgical Combine. (Kuznetskiy Metallurgicheskiy Kombinat).

AVAILABLE: Library of Congress.

Card 1/1

CIA-RDP86-00513R001962330001-6" APPROVED FOR RELEASE: 09/19/2001

YEFIMON, G.P.

AUTHOR: Yefimov, G.P., Engineer

133-58-3-15/29

TITIE:

Manufacture of Clamps for Separate Fastening of R-50 Type Rails (Proizvodstvo klemm dlya razdel'nogo skrepleniya

k rel'sam R-50)

PERIODICAL:

Stal', 1952, Nr 3, pp 240 - 241 (USSR)

ABSTRACT:

The method of manufacturing (stamping) clamps for fixing the rail foot to the sleeper, used on the Kuznetskiy

Metallurgical Combine is described and illustrated.

There are 2 figures.

ASSOCIATION: Kuznetekiy metallurgicheskiy kombinat

(Kuznetskiy Letallurgical Combine)

AVAILABLE:

Library of Congress

Card 1/1

CIA-RDP86-00513R001962330001-6" APPROVED FOR RELEASE: 09/19/2001

GONCHAROV, Nikolay Grigor'yevich; YEFIMOV, German Pavlovich; MANYUKOV, G.S., inzh., red.; VERINA, G.P., tekhn.red.

[Transportation of oversize and heavy freight] Perevozki negabaritnykh i tiazhelovesnykh gruzov. Moskva, Gos.transp. zhel.-dor.izd-vo. 1959. 223 p. (MIRA 12:6) (Railroads--Freight)

 SMEKHOV, Anatoliy Alekseyevich, kand.tekhn.nauk. Prinimal uchastiye YEGOHOV, K.A., kand.tekhn.nauk. YEFIMOV, G.P., red.; MEDVEDEVA, M.A., tekhn.red.

[Principles of the automatization of loading and unloading operations] Puti avtomatizatsii pogruzochno-razgruzochnykh rabot. Moskva, Vses.izdatel'sko-poligr.ob"edinenie M-va putei soobshcheniia, 1960. 113 p. (MIRA 13:9) (Loading and unloading) (Automatic control) (Railroads--Freight)

YEFIMOV. G.P.; KOGAN, L.A.; PREDE, V.Yu., red.; MEDVEDEVA, M.A., tekhn.red.

[New types of automatic loaders, small containers and pallets]
Novye tipy avtopogruzchikov malotonmazhnykh konteinerov i poddonov.
Moskva, Gos.transp.zhel-dor.izhd-vo, 1960. 175 p. (Moscow.
Vsesoiuznyi nauchno-issledovatel skii institut zheleznodorozhnogo
transporta. Trudy, no.183).

(MIRA 13:11)
(Railroads—Freight) (Loading and unloading)

RIDEL', Eduard Ivanovich; SHTEFKO, Igor' Vladimirovich; YEFIMOV, G.P., retsenzent; TSARENKO, A.P., red.; MED'EDEVA, M.A., tekhn. red.

[Transportation of palletized loads] Opyt perevozok gruzov v iashchichnykh poddonakh. Moskva, Vses. izdatel'sko-poligr. ob"edinenie M-va putei soobshcheniia, 1961. 47 p. (MIRA 14:7) (Unitized cargo system)

GOLOVKIN, Mikhail Pavlovich; NAUMOV, A.F., retsenzent; NAUMKIN, A.N., inzh., retsenzent; RAMODIN, V.N., inzh., retsenzent; SOIDATENKOV, A.G., retsenzent; YEFTMOV, G.P., kand.tekhn.nauk, red.; MEDVEDEVA, M.A., tekhn. red.

[Design and operation of motor operated loaders] Ustroistvo i ekpluatatsiia avtopogruzchikov. Moskva, Vses.izdatel'sko-poligr. ob"edinenie M-va putei soobshcheniia, 1961. 77 p. (MIRA 14:12)

1. Abkhasian A.S.S.R. Statisticheskoye upravleniye.
(Abkhazia-Statistics)

KOROTKOV, Valentin Nikolayevich; YEFIMOV, C.P., kand. tekhn. nauk, retsenzent; TSARENKO, A.P., inzh., red.; KHITROVA, N.A., tekhn. red.

[Manual for the operator of a gantry crane] Posobie kranovshchiku kozlovogo krana. Izd.2., ispr. i dop. Moskva, Vses. poligr. obⁿedinenie M-va putei soobshcheniia, 1961. 271 p. (MIRA 14:11) (Cranes, derricks, etc.)

GONCHAROV, Nikolay Grigor'yevich; YEFIMOV, German Pavlovich; MANYUKOV,
G.S., inzh., red.; KHITROV, P.A., tekhm. red.

[Transportation of nonstandard size and heavy-weight reight]
Perevozki negabaritnykh i tiazhelovesnykh gruzov. Izd.2.,
perer. i dop. Moskva, Vees. izdatel'sko-poligr. ob'edinenie
M-va rutei soobshcheniia, 1961. 259 p. (MIRA 15:1)

(Railroads-Freight)

 KOGAN, L.A.; YEFIMOV, G.P.; DERIBAS, A.T.; PETROVA, T.I.;
KATOLICHENKO, V.A., inzh., retsenzent; ORLOVA, I.A., inzh., red.;
BOBROVA, Ye.N., tekhn.red.

[Demountable truck trailers and high-capacity containers]
Kontreilery i krupnotonnazhnye konteinery. Moskva
Izd-vo. -poligr. ob ednienie m-va putei soobshchniia.
1962. 185 p. (Moscow. Vsesoiuznyi nauchno-issledovatel'skii
institut zheleznodorozhnogo transporta. Trudy, no.238). (MIRA 15:11)
(Piggyback transportation)

SHTEFKO, I.V.; RIDEL', E.I.; YEFIMOV, G.P., kand. tekhn. nauk, retsenzent; SHISHKIN, G.S., inzh., red.; MEDVEDEVA, M.A., tekhn. red.

[Over-all mechanization of the loading and unloading of fruit and vegetables] Kompleksnaia mekhanizatsii pogruzki-vygruzki plodoovoshchei. Moskva, Transzheldorizdat, 1963. 58 p., (MIRA 16:7) (Loading and unloading) (Fruit—Transportation) (Vegetables—Transportation)

STOGOV, V.N., doktor tekhn.nauk prof.; PLYUKHIN, D.S., kand. tekhn. nauk; YEFIMOV. G.P., kand. tekhn.nauk; GRINEVICH, G.P., doktor tekhn. nauk, retsenzent; SHISHKIN, G.S., inzh., red.; USENKO, L.A., tekhn. red.

[Loading and unloading machinery] Pogruzochno-razgruzochnye mashiny. Moskva, Transzheldorizdat, 1963. 239 p.

(MIRA 16:8)

(Loading and unloading -- Equipment and supplies)

YEFIMOV, G.S.; PARSHUTIN, S.M.

Transpiration of cotton and alfalfa in Murgab and Tedzhen Oases.

Izv. AN Turk. SSR. Ser. biol. nauk no.2:24-29 '64.

(MTRA 17:6)

1. Turkmenskiy nauchno-issledovatel skiy institut vodnykh problem i gidrotekhniki.

BARBASHOV, B.M.; YEFIMOV, G.V.

Green's function in the model of scalar charged mesons with a fixed source. Zhur. eksp. i teor. fiz. 38 no.1:198-200 Jan '60. (MIRA 14:9)

Ob"edinennyy institut yadernykh issledovaniy.
 (Nuclear models) (Potential, Theory of) (Mesons)

83195

S/056/60/039/002/032/044 B006/B070

24.4500 AUTHORS:

Barbashov, B. M., Yefimov, G. V.

TITLE:

A Method for Field-theoretical Problems Involving a

Stationary Nucleon /9

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1960,

Vol. 39, No. 2(8), pp. 450 - 460

TEXT: In the present paper the authors consider the example of an interaction between charged scalar mesons and stationary source and develop a new method for the solution of mesodynamical equations of this class of models. The applied formalism is not related to the coupling constant. It is based on the matrix method of solution of differential equations given by I. A. Lappo-Danilevskiy. The new formalism is equivalent to the perturbation theory, if the Hamiltonian of the system of neutral mesons and a stationary nucleon is taken to be the unperturbed Hamiltonian. While in the perturbation theory the approximation can be made only by taking an arbitrary number of terms of the series, the new method gives in a closed form the value of the n-th term of the

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A Method for Field-theoretical Problems Involving a Stationary Nucleon B/056/60/039/002/032/044 B006/B070

approximation. This fact also allows, in principle, the test of the convergence of the series. Thus, the field-theoretical problem is solved in the form of a series whose n-th term is known. Since the coupling constant does not act as the parameter for the expansion of the series, no assumption need be made about its smallness. The advantages of these facts are discussed. An investigation of the renormalized coupling constant leads to the conclusion that, in the exact solutions for some models, there exist poles at the point g=0. This fact makes all the methods doubtful when they are based on an expansion in terms of g. The renormalization constant is calculated according to the proposed method. It is found that the renormalized charge g_{r} has no logarithmic singularity in this model when a transition is made to the point interaction, Finally, it is shown that the method of functional integration, still only imperfectly worked out, leads to correct results in the given case. The authors hope that after further development, the method would lead still more efficiently to exact solutions of the field-theoretical problems. The authors thank Professor D. I. Blokhintsev and Academician N. N. Bogolyubov for stimulating discussions. Tamm, Dankov, and

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Card 2/3

A Method for Field-theoretical Problems Involving a Stationary Nucleon 83195 \$/056/60/039/002/032/044 B006/B070

D. V. Shirkov are mentioned. There are 9 references: 4 Soviet, 4 US, and 1 British.

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ASSOCIATION: Ob"yedinennyy institut yadernykh issledovaniy (<u>Joint</u> Institute of Nuclear Research)

SUBMITTED: March 18, 1960

Card 3/3

BARBASHOV, B.M.; YEFIMOV, G.V.

Properties of the solution of the equation for one model of the local field theory. Dubna, Izdatel skii otdel Obmedinennogo in-ta iedanykh issledovanii, 1961. 10 p.

(No subject heading)

YEFIMOV, G.V.

[Renormalization of models in the theory of a field with a fixed nucleon] O perenormirovke modelei teorii polia s fiksirovannym nuklonom. Dubna, Ob"edinennyi institut iadernykh issl.,
1961. 12 p. (MIRA 15:1)
(Nucleons) (Quantum field theory)

BARBASHOV, B.M.; YEFIMOV, G.V.

[Properties of the solution to Low's equation for a model in the local field theory] Svoistva resheniia uravneniia Lou dlia odnoi modeli lokal'noi teorii polia. Dubna, Ob"edinenniy in-t iadernykh issl., 1961. 14 p.

(Nuclear models) (Field theory)

S/056/61/040/003/017/031 B102/B205

24,4500

AUTHORS:

Barbashov, B. M., Yefimov, G. V.

TITLE:

Model of local field theory with finite charge renormaliza-

tion

PERIODICAL:

Zhurnal eksperimental noy i teoreticheskoy fiziki, v. 40,

no. 3, 1961, 848-859

TEXT: A method previously developed by the present authors (cf. ZhETF, 38, 198, 1960 and 39, 450, 1960) has now been used to treat the modified Lee model of local field theory (T. D. Lee, Phys. Rev. 95, 1329, 1954) proposed by I. Bialnicki-Birula (Nucl. Phys. 12, 309, 1959), in which the condition of cross symmetry is satisfied. For this model in which the fixed nucleon appears in two states of different masses, the S-matrix and the renormalization constants are determined first. The solutions are obtained in the form of expansions in series of the renormalization constants Δm (Δm is a physical parameter corresponding to the difference in mass between the two fermion states in the model); these series converge in the ultraviolet (E>\Delta m). The principal feature of the model is its

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S/056/61/040/003/017/031 B102/B205

Model of local field theory ...

finite charge renormalization in all orders with respect to Δm for point interaction (unlike the Lee model where the problem of zero charge arises). On the strength of the Hamiltonian

$$H = m_0 (\psi^* \psi) + \frac{1}{2} \int dx : [\pi^2 (x) + (\nabla \varphi (x))^2 + \mu^2 \varphi^2 (x)] : +$$

$$+ g (\psi^* \tau_1 \psi) \int dx \, \varphi (x) \, \delta (x) + \Delta m_0 (\psi^* \tau_3 \psi), \qquad (1)$$

the adiabatic S-matrix, S^{α} , was found to be

$$S^{\alpha}(t, t_{0}) = 1 - \left[2 \left(\psi^{+}\psi\right) - \left(\psi^{+}\psi\right)^{2}\right] + \sum_{q=0}^{\infty} \frac{\left[-i \left(\psi^{+}\tau_{2}\psi\right) \Delta m_{0}\right]^{q}}{q!} \int_{t_{0}}^{t} d\xi_{1} \dots \int_{t_{n}}^{t} d\xi_{q} \times \\ \times : \exp\left\{-i \left(\psi^{+}\tau_{1}\psi\right) g \int_{t_{n}}^{t} ds \prod_{j=1}^{q} \varepsilon\left(\xi_{j} - s\right) \hat{\varphi}\left(s\right) e^{-\alpha|s|}\right\} : \times \\ \times \exp\left\{-\frac{i g^{2}}{2} \int_{t_{n}}^{t} \int_{t_{n}}^{t} ds_{1} ds_{2} e^{-\alpha(|s_{1}|+|s_{2}|)} \prod_{j=1}^{q} \varepsilon\left(\xi_{j} - s_{1}\right) \Delta\left(s_{1} - s_{2}\right) \varepsilon\left(\xi_{j} - s_{2}\right)\right\} \times \\ \times \exp\left\{-\alpha \sum_{j=1}^{q} |\xi_{j}|\right\}. \tag{3}$$

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(6')

S/056/61/040/003/017/031

Model of local field theory...

Далее

This expression is exact up to a phase constant. The matrix elements of the S-matrix were investigated, and

$$E_{N} = \lim_{\alpha \to 0} \frac{\langle N \mid HS^{\alpha}(0, -\infty) \mid N \rangle}{\langle N \mid S^{\alpha}(0, -\infty) \mid N \rangle} =$$

$$= m + \delta_{N} \Delta m \sum_{q=0}^{\infty} (-\delta_{N} \Delta m)^{q} \int_{0}^{\infty} dx_{1} \dots \int_{0}^{\infty} dx_{q} x_{1} \dots x_{q} \times$$

$$\times \frac{\partial^{q}}{\partial x_{1} \dots \partial x_{q}} \exp \left\{ 2g^{2} \sum_{k} \frac{1}{\omega^{2}} \sum_{l=1}^{q} \sum_{m=1}^{l} (-1)^{l+m} \exp \left(-\omega \sum_{l=m}^{l} x_{l}\right) \right\}, \quad (6)$$

 $\delta_N = \begin{cases} +1 \text{ для протона } (N=p) \text{ (pecton)} \\ -1 \text{ для нейтрона } (N=n). \text{ (neutron)} \end{cases}$

 $m = m_0 - \frac{1}{2} g^2 \sum_{\mathbf{k}} \omega^{-2},$

 $\Delta m = \Delta m_0 \exp\left\{-g^2 \sum_{\mathbf{k}} \omega^{-3}\right\}. \tag{6°}$

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 S/056/61/040/003/017/031 B102/B205

Model of local field theory ...

$$Z_{2}^{N} = |\langle N | N \rangle|^{2} = |\langle N | S^{\alpha}(0, -\infty) | N \rangle|^{2} =$$

$$= Z_{2}^{cx} \left[\sum_{q=0}^{\infty} (\delta_{N} \Delta m)^{q} \int_{0}^{\infty} dx_{1} \dots \int_{0}^{\infty} dx_{q} x_{1} \dots x_{q} \times \frac{\partial^{q}}{\partial x_{1} \dots \partial x_{q}} \exp \left\{ g^{2} \sum_{k} \frac{1}{\omega^{2}} \left[-\sum_{l=1}^{q} (-1)^{l} \exp \left(-\omega \sum_{l=1}^{l} x_{l} \right) + 2 \sum_{l=2}^{q} \sum_{m=2}^{q} (-1)^{l+m} \exp \left(-\omega \sum_{l=m}^{l} x_{l} \right) \right] \right\}^{\frac{1}{2}}.$$
(7)

Здесь

$$Z_2^{ck} = \exp\left\{-\frac{1}{2}g^2\sum_k\omega^{-3}\right\}$$

where Z_2 holds for scalar mesons, and $|\overrightarrow{N}\rangle$ denotes the single-nucleon state of the total Hamiltonian. As usual, the coupling renormalization constant is given by Card 4/6

S/056/61/040/003/017/031 B102/B205

Model of local field theory ...

$$\frac{g_r}{g} = \langle p \mid \psi^+ \tau_1 \psi \mid n \rangle = \lim_{\alpha \to 0} \frac{\langle p \mid S^{\alpha}(\infty, 0) \psi^+ \tau_1 \psi S^{\alpha}(0, -\infty) \mid n \rangle}{[\langle p \mid S^{\alpha}(\infty, -\infty) \mid p \rangle \langle n \mid S^{\alpha}(\infty, -\infty) \mid n \rangle]^{1/2}} =
= 1 + \sum_{q=1}^{\infty} (\Delta m)^{2q} \int_{0}^{\infty} dx_1 \dots \int_{0}^{\infty} dx_{2q-1} x_1 \dots x_{2q-1} \sum_{l=1}^{q} x_{2l-1} \times
\times \frac{\partial^{2q-1}}{\partial x_1 \dots \partial x_{2q-1}} \exp \left\{ 2g^2 \sum_{k} \frac{1}{\omega^3} \sum_{l=1}^{2q-1} \sum_{m=1}^{l} (-1)^{l+m} \exp \left(-\omega \sum_{l=m}^{l} x_l \right) \right\}. \quad (8)$$

The renormalization constant of the vertex part is obtained in the form $Z_1 = Z_2^{cK} \sigma(g^2, \Delta m)$, where $\sigma(g^2, \Delta m)$ is a series of Δm , the terms of which are all finite for $g^2/\pi^2 < 1$. The matrix element of elastic scattering of a meson from a nucleon is written as

$$S_{l \leftarrow l} = \lim_{\alpha \to 0} \frac{\langle N \mid a_{p_{l}} S^{\alpha}(\infty, -\infty) a_{p_{l}}^{+} \mid N \rangle}{\langle N \mid S^{\alpha}(\infty, -\infty) \mid N \rangle} = \delta(p_{l} - p_{l}) - 2\pi l \delta(\omega_{l} - \omega_{l}) M_{l \leftarrow l}(\omega_{l}); (10)$$

$$M_{l \leftarrow l}(\omega_{l}) = -\frac{2\delta_{N}g^{\alpha}}{\omega_{l}^{2}} \frac{\Delta m}{\omega_{l}} \sum_{q=0}^{\infty} (-i\delta_{N} \Delta m)^{q} \int_{0}^{\infty} dx_{1} \dots \int_{0}^{\infty} dx_{q} \times$$

$$\times \left[q + 1 - \sum_{l=1}^{q} \sum_{m=1}^{l} (-1)^{l+m} \left\{ \exp\left(l\omega_{l} \sum_{l=m}^{l} x_{l}\right) + \exp\left(-l\omega_{l} \sum_{l=m}^{l} x_{l}\right) \right\} \right] \times$$

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Model of local field theory ...

$$\times (-1)^q \int_{x_1}^{\infty} dy_1 \dots \int_{x_q}^{\infty} dy_q \frac{\partial^q}{\partial y_1 \dots \partial y_q} \times \\ \times \exp \left\{ 2g^2 \sum_k \frac{1}{\omega^3} \sum_{l=1}^q \sum_{m=1}^l (-1)^{l+m} \exp \left(-l\omega \sum_{l=m}^l y_l \right) \right\}.$$

Next, it is proved that the series are convergent for E_p, Zⁿ₂, and g_r. Professor D. I. Blokhintsev is thanked for his interest in the work and for a discussion, and also L. G. Zastavenko for a discussion of mathematical problems. Several mathematical problems are dealt with in appendages. There are 11 references: 4 Soviet-bloc and 7 non-Soviet-bloc. The three references to English language publications read as follows: The three references to English language publications read as follows: R. Arnowitt, S. Deser, Phys. Rev. 100, 349, 1955; L. N. Cooper, Phys. Rev. 100, 362, 1955; S. F. Edwards, R. E. Peierls, Proc. Roy. Soc. A224, 24, 1954.

ASSOCIATION: Ob"yedinennyy institut yadernykh issledovaniy (Joint

Institute of Nuclear Research)

SUBMITTED: September 30, 1960

Card 6/6

 RARBASHOV, V.M.; YEFIMOV, G.V.; SARANTSEVA, V.R., tekhn. red.

[Remark on unrenormalized theories] Zamechanie o neperenormiruemykh teoriiakh. Dubna, Obwedinennyi in-t iadernykh isel., (MIRA 15:6)

(Quantum field theory)

YEFIMOV, G.V.

On the Kemmer scalar symmetrical model. Dubna, Ob*edinennyi in-t iadernykh issledovanii, 1962. 13 p.

(No subject heading)

5/056/62/042/002/033/055 B108/B104

AUTHORS:

Barbashov, B. M., Yefimov, G. V.

TITLE:

Properties of a solution of the Low equation for a local

field theory model

PERIODICAL: Zhurnal: eksperimental 'noy i teoreticheskoy fiziki, v. 42,

no. 2, 1962, 520 = 525

TEXT: The Low equation is solved for a simple model of elastic scattering of a meson from a stationary nucleon. The latter may exist in two states whose difference A in mass is less than the mass of the meson. amplitude of S scattering of a meson with energy $\omega = \sqrt{k^2 + \mu}$

> 20 Ng. $g_r^2 \delta_N \Delta \qquad \sqrt{\mu^2 - \Delta^2} - \sqrt{\mu^2}$ $M_{N}(\omega) = \frac{2}{(2\pi)^{3}} \frac{1}{\omega(\omega^{2} - \Delta^{2})} \left\{ 1 - \frac{1}{4\pi \sqrt{\mu^{2} - \Delta^{2}}} \frac{1}{\sqrt{\mu^{2} - \Delta^{2}} + \sqrt{\mu^{2} - \omega^{2}}} \right\}$

This solution has poles at the points $\pm \Delta$. The additional pole in the interval [- mail which would contradict to the assumed analytical properties of $M_{\mathbf{N}}(\boldsymbol{\omega})$ can be eliminated by imposing restrictions on the coupling conwhich are due to the single-particle unitarity relation: Card 1/5

APPROVED FOR RELEASE: 09/19/2001

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Properties of a solution...

S/056/62/042/002/033/055 B108/B104

 $\sqrt{\mu^2 - \omega^2} = -\sqrt{\mu^2 - \Delta^2} \left[1 - \delta_N \frac{g_r^2 \Delta}{4\pi \sqrt{\mu^2 - \Delta^2}} \right] / \left[1 + \delta_N \frac{g_r^2 \Delta}{4\pi \sqrt{\mu^2 - \Delta^2}} \right]$

 $g^2/4\pi < \sqrt{\mu^2 - \Delta^2}/\Delta,$

In an earlier paper (ZhETF, $\underline{40}$, 848, 1961) the authors have obtained the scattering amplitude in the form of a power series which they derived on the basis of the Hamiltonian formalism from the Schrödinger equation. Comparison between the two solutions showed that at energies $w<2\mu$ the contribution of many-particle states to the scattering amplitude is not greater than 15%. The restriction relating g_r and Δ with each other is

valid in first-order approximation also for the power series solution. Professor D. I. Blokhintsev is thanked for discussions. Mention is made of L. A. Khalfin (ZhETF, 41, 1233, 1961) and V. N. Gribov, Ya. B. Zel'dovich, A. M. Perelomov (ZhETF, 40, 1190, 1961). There are 9 references: 4 Soviet and 5 non-Soviet. The four most recent references to English-language publications read as follows: R. Norton, A. Klein.

Card 2/3

Properties of a solution ...

S/056/62/042/002/033/055 B108/B104

Phys. Rev., 109, 991, 1958; F. J. Dyson. Phys. Rev., 106, 157, 1957; F. Zachariasen. Phys. Rev., 121, 1851, 1961; G. F. Chew, F. E. Low. Phys. Rev., 101, 1570, 1956.

ASSOCIATION: Ob"yedinennyy institut yadernykh issledovaniy (Joint Institute of Nuclear Research)

SUBMITTED: August 12, 1961

Card 3/3

- 38863

S/056/62/042/006/022/047 B104/B102

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Yefimov, G. V.

TITLE:

AUTHOR:

The scalar symmetric model of Kemmer

PERIODICAL:

Card 1/2

Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 42,

no. 6, 1962, 1558-1566

TEXT: The scalar symmetric model of Kemmer (Proc. Cambl. Phil., 34, 354, 1938) is investigated by the method of Lappo-Danilevskiy (B. M. Barbashov, C. V. Yefimov, ZhETF, 39, 450, 1960) assisted by renormalization as developed for a field theory with a fixed nucleon. The object of the work is to gain a better understanding of the theory in the limiting case of point interaction. Results: The renormalized coupling constant is limited by $g_r^2/2\pi < 1$. In the case of point interaction the relation between g_r and g is finite. The logarithmic divergences in the perturbation theory are related to the expansion in terms of the coupling constant. $g_r = g_r(g)$ possesses no singular point at $g_r = 0$ but $\lim_{r \to 0} g_r/g \neq 1$. This is valid if

The scalar symmetric model ...

S/056/62/042/006/022/047 B104/B102

the series converge. The convergence problems were not investigated,

ASSOCIATION: Ob"yedinennyy institut yadernykh issledovaniy (Joint Institute

of Nuclear Research)

SUBMITTED: December 20, 1961

Card 2/2

8/056/62/043/003/048/063 B108/B102

AUTHORS:

Barbashov, B. M., Yefimov, G. V.

A note on nonrenormalized theories

TITLES PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 43, no. 3(9), 1962, 1057 - 1059

TEXT: R. Arnowitt, S. Deser (Phys. Rev., 100, 349, 1955) and L. Cooper (Phys. Rev., 100, 362, 1955) have tried to eliminate the ultraviolet divergence in some nonrenormalized models of field theory by analytical continuation in terms of the coupling constant g2. It was concluded that the nonrenormalized interaction is related to the expansion in respect of g^2 in perturbation theory. It is shown here that this conclusion is incorrect, since analytical continuation in terms of g2 leads to a complex eigenvalue of the single-nucleon state energy and to a complex renormalized coupling constant. This would be inconsistent with the hermiticity of the Hamiltonian (cf. also ZhETF, 40, 848, 1961)

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A note on nonrenormalized theories

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$$H_{I}(t) = g(\psi^{\dagger}\tau_{1}\psi)\hat{\pi}(t) + \Delta m_{0}(\psi^{\dagger}\tau_{3}\psi); \qquad (1),$$

$$\hat{\pi}(t) = \int dx \rho(x) \frac{\partial}{\partial t} \varphi(x, t) = \sum_{\mathbf{k}} \frac{\sigma(\mathbf{k})}{\sqrt{2\omega}} (-i\omega) (a_{\mathbf{k}} e^{-i\omega t} - a_{\mathbf{k}}^{\dagger} e^{i\omega t}), \qquad (2).$$

$$\rho(x) = \sum_{k} v(k) e^{ikx}, \quad v(k) = \exp\left\{-\frac{\omega - \mu}{2L}\right\}.$$

This Hamiltonian is nonrenormalized since analytical continuation in terms of g^2 leads to results that are finite but have no physical sense. There is 1 figure.

ASSOCIATION: Ob"yedinennyy institut yadernykh issledovaniy (Joint Institute of Nuclear Research)

SUBMITTED: April 11, 1962

Card 2/2

L 13838-63 EWT(1)/FCC(w)/BDS AFFTC/ASD/ESD-3 IJP(C)

ACCESSION NR: AP3003146

8/0056/63/044/006/2107/2117

AUTHOR: Yefimov, G. V.

-5

TITLE: On the construction of a local quantum field theory without ultraviolet divergences

SOURCE: Zhurnal eksper. i teor. fiziki, v. 44, no. 6, 1963, 2107-2117

TOPIC TAGS: quantum field theory, ultraviolet divergence, perturbation theory, nonlinear interaction Legrangian, scalar particle mass correction

ABSTRACT: It is suggested that the difficulties of local theories in scalar quantum field theory, connected with the presence of ultraviolet divergences in the perturbation approach, are a result of the fact that the interaction Lagrangians usually considered grow more rapidly with respect to the scalar fields than the free-field Lagrangian. It is found possible to introduce nonlinear local interaction Lagrangians obeying certain conditions which do not give rise to ultraviolet divergences in second-order perturbation theory, although it is recognized that no definite conclusions can be drawn on the possibility of constructing a finite local theory without investigating the higher approximations. The S-matrix is first considered by the method of functional Card 1/2

L 13838-63

ACCESSION NR: AP3003146

integration and the basic assumptions concerning the possible forms of the interaction Lagrangian are formulated. The necessary conditions for the absence of ultraviolet divergences in second-order perturbation theory are then investigated in detail. As an example, the correction to the mass of the scalar particle is computed. "The author expresses his deep gratitude to Prof. D. I. Blokhintsev and Academician N. N. Bogolyubov for their interest and valuable comments, and to L. G. Zastavenkov and I. T. Todorov for useful advice." Orig. art. has: 3 figures and 48 formulas.

ASSOCIATION: Ob"yedinenny*y institute yaderny*kh issledovaniy (Joint Institute of Nuclear Research)

SUBMITTED: 26Jan63

DATE ACQ: 23Jul63

ENCL: 00

SUB CODE: 00

NO REF SOY: 001

OTHER: 006

Card 2/2

VOLKOV, M.K.; YEFIMOV, G.V.

[Analytical properties of amplitudes in the second order of the nonlinear field theory] Analiticheskie svoistva amplitud vo vtorom poriadke nelineinoi teorii polia. Dubna, Ob"edinennyi in-t iadernykh issl., 1964. 9 p.

"APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001962330001-6

L 4585-66

ACC NR: AP5020268

UR/0367/65/002/001/0180/0169

AUTHOR: Yefimov. G. V.

TITLE: Regularization of nonrenormalizable theories

SOURCE: Yadernaya fizika, v. 2, no. 1, 1965, 180-189

TOPIC TAGS: quantum field theory, analyticity, causality principle, strong nuclear

interaction

ABSTRACT: A scalar quantized field with a nonrenormalizable interaction Lagrangian is considered. The theory is first formulated in Euclidean space, in which the causal function is regularized to remove all divergences in the theory. The type of essential singularity considered is one in which the amplitude decreases properly in the Euclidean region, and increases more rapidly than a polynomial in the physical region It is shown with the scalar field as an example that it is possible to introduce a relativistic cut-off which makes it possible to avoid all divergences in perturbation theory. The analytic continuation to the physical region does not violate in this case the unitarity, locality, and causality conditions. From the point of view of this cutoff procedure there is no difference between renormalizable and nonrenormalizable interactions. At infinite energies, the amplitudes of the physical processes are found to have an essential singularity. Consequently, the usual dispersion relations will not be valid in this version of the theory. "I thank Academician N. N. Bogolyubov, Professor D. I. Blokhintsev, Professor M. A. Markov, I. T. Todorov and

ACC NR: AP5020268	remarks." Orig. art. has: 5 figures and 50 formulas.	
ASSOCIATION: Ob"yedinennyy in Nuclear Research)	nstitut yadernykh issledovaniy (Joint Institute of	
SUBMITTED: 22Jan65	ENCL: OO SUB CODE: GP	
NR REF SOV: 008	OTHER: 004.	
Card 2/2		

1. 1/1 1/2 547(1) ECD(F /MSD(EMSOD/AFWI/ASD(p)+3 ACCESSION NR: AP5000335 S/0056/64/047/005/1800/1805

AUTHORS: Volkov, M. K.; Yefimov, G. V.

TITLE. Analytic properties of amplitudes in second order in nonlinear field theory

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. v. 47, no. 5, 1964, 1800-1805

TOPIC TAGS: field theory, perturbation theory, nonlinear theory, unitarity, causality

ABSTRACT: Continuing earlier efforts by one of the authors (Yefimov, ZhETF v. 44, 2017, 1963) to construct a finite local theory of the scalar field by introducing an essentially nonlinear interaction Lagrangian satisfying definite requirements, the authors investigate the authors of the processes of sevent order of perturbation and all all all all and processes.

Card 1/2

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDF

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ACCESSION NR: AP5000335

2

theory is proved in this order. An analysis of the asymptotic behavior of the imaginary parts of the amplitudes for large values of the momenta and for high energies indicates that only a study of the behavior of the improvementations of the perturbation theory can yield complete the indicates of the perturbation theory can yield complete the indicates of the perturbation of the amplitudes of the perturbation of the amplitudes also as a linear theory agrees with causality to by, at least the edge of perturbation theory. The authors thank L. G. Zastavenko for a discussion. Orig. art. has: I figure and 36 formulas.

ASSOCIATION: Ob"yedinenny*y institut yaderny*kh issledovaniy (Joint Institute of Nuclear Research)

SUBMITTED: 21Apr64

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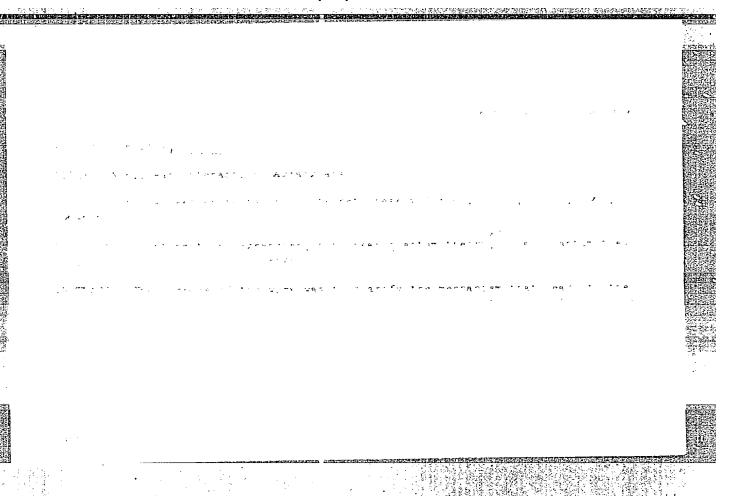
SUB CODE: NP. GP

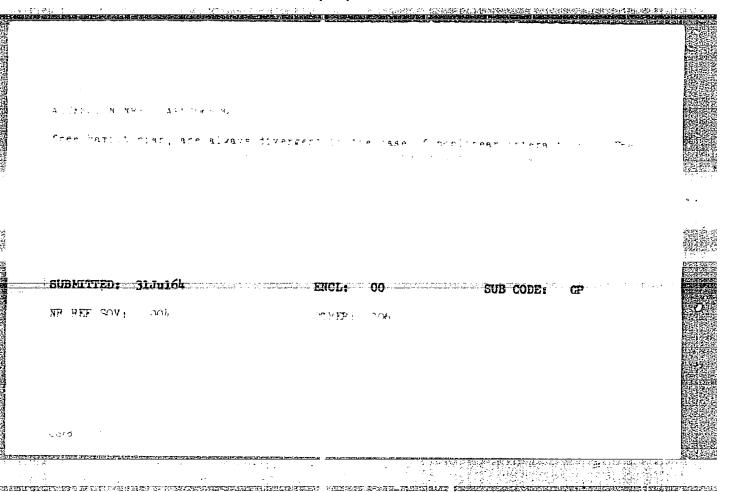
NR REF SOV: 003

OTHER: 002

Card 2/2

1





YEFTHOV, Gerontiy Valentinovich; ARKHAROVA, V.G., red.

[Countries and people] Strany i liudi. Leningrad, (MIRA 18:12)

YEFIMOV. Grigoriy Vasil'yevich; AKSENOV, G.A., redaktor; SARMATSKAYA, G.I., redaktor izdatel stva; SHITS, V.P., rekhnicheskiy redaktor

[Drying and thoroughly scaking wood in petrolatum] Sushka i glubokaia propitka drevesiny v petrolatume. Moskva, Goslesbumizdat, 1956. 27 p.

(Wood--Preservation) (Petrolatum)

YEFIMOV, I., predsedatel'

More coal for our country. V pom. profaktivu 14 no.14:10-12 Jl 153.

(HLda 6:7)

1. Komitet profsoyuza shakhty no.29 imeni Stalina. (Coal mines and mining)

Pavel Afonin, distinguished excavator operator. Stroitel' no.5:12 (MIRA 11:6) Ny '58. (Afonin, Pavel)	YEFIMOV,							
(Afonin, Pavel)	Control Control of the Control of the Control	Pavel My '5	Afonin, 58.			Stroitel'	no.5:12 (MIRA 11:6)	
				(Afonin, Pavel)				
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YEFIMOV, I., inzh. po tekhnike bezopasnosti

Machines should be delivered with safety guards. Bezop. truda v prom. 2 no.12:36 D 158. (MIRA 11:12)

1. Verkhne-Kamskey fosforitnyy rudnik.
(Weedworking machinery--Safety measures)